

## WHAT IS CLAIMED IS:

- 1     1.     An article for smoking an elongate tobacco product comprising:
  - 2           a)     a mouthpiece having an inside surface and an outside surface, comprising a  
3                 first end defining a receptacle therein and a second end comprising an  
4                 outside surface capable of being grasped in a smoker's mouth and defining  
5                 an outlet chamber within the mouthpiece; and  
6           b)     a holder, the holder being removably inserted into the receptacle, the holder  
7                 comprising
    - 8                 i)     a first section disposed at an end of the holder defining an inside  
9                       chamber capable of holding the elongate tobacco product in place  
10                      and allowing a volume for collection of combustion products  
11                      therein, the first section having an outside surface with a diameter  
12                      too large to fit into the receptacle in the mouth piece,  
13                 ii)    a second section in series with the first section and having an inside  
14                       and an outside surface, the second section contoured to fit into the  
15                       receptacle in the mouthpiece and defining a continuation of the  
16                       inside chamber,  
17                 iii)   a first annular support and a second annular support on the outside  
18                       surface of the second section, each annular support being capable of  
19                       holding a resilient ring thereon,  
20                 iv)    an annular baffle on the outside surface of the second section  
21                       between the first annular support and the second annular support,  
22                       and  
23                 v)     two resilient rings, one resilient ring supported on each annular  
24                       support, wherein the mouthpiece and the holder are contoured such  
25                       that when the holder is inserted into the mouthpiece the two  
26                       resilient rings are in snug contact with the inner surface of the  
27                       mouthpiece forming a sealed chamber between them in the annular  
28                       space between the outside surface of the second section and the

29                   inside surface of the mouthpiece, and wherein the holder defines at  
30                   least one restricted passage from the inside chamber to the sealed  
31                   chamber, said at least one restricted passage being directed towards  
32                   the inside surface of the mouthpiece between the two annular  
33                   supports, and wherein the holder further defines an exit passage  
34                   having at least one inlet between the baffle and the second annular  
35                   support and an exit into the outlet chamber of the mouthpiece.

1    2.    The article of claim 1 wherein the holder further comprises a barrier in series with  
2           the second inside chamber such that combustion products can only pass between  
3           the inside chamber and the outlet chamber through a path through the restricted  
4           passage, the sealed chamber and the exit passage in sequence.

1    3.    The article of claim 1 wherein the elongate tobacco product is a cigarette of the  
2           type without an integral filter.

1    4.    The article of claim 1 wherein the elongate tobacco product is a cigarette with an  
2           integral filter.

1    5.    The article of claim 1 wherein the elongate tobacco product is a cigar.

1    6.    The article of claim 2 wherein the mouthpiece and the holder comprise plastic and  
2           the resilient rings are o-rings.

1    7.    The article of claim 2 wherein the mouthpiece comprises polystyrene, the holder  
2           comprises Acrylonitrile Butadiene Styrene, and the resilient rings are rubber o-  
3           rings.

1    8.    The article of claim 2 wherein the holder has symmetry about a central plane,  
2           wherein any cross section perpendicular to the central plane is circular.

- 1 9. The article of claim 8 wherein the at least one restricted passage is perpendicular  
2 to the central plane of symmetry whereby combustion products are made to change  
3 direction by approximately 90 degrees in passing between the second inside  
4 chamber and the sealed chamber.
- 1 10. The article of claim 9 wherein the at least one restricted passage comprises two  
2 diametrically opposed passages through the holder.
- 1 11. The article of claim 8 wherein the exit passage causes a change in direction,  
2 whereby combustion products are made to change direction by approximately 90  
3 degrees in passing between the sealed chamber and the outlet chamber.
- 1 12. The article of claim 11 wherein the at least one inlet to the exit passage comprises  
2 two diametrically opposed passages through the holder.
- 1 13. The article of claim 11 wherein the holder and mouthpiece are each a single piece  
2 of injection molded plastic.

- 1 14. A process for smoking an elongate tobacco product so as to reduce the amount of  
2 tarry materials consumed comprising the acts of:
- 3 a) placing the elongate tobacco product in a receptacle of a holder, a portion  
4 of the holder behind the receptacle being removably inserted into a  
5 mouthpiece;
- 6 b) lighting the elongate tobacco product and applying suction to the holder  
7 through the mouthpiece such that combustion products are drawn through  
8 the holder;
- 9 c) passing the combustion products through a restricted passage such that the  
10 combustion products accelerate, expand and impinge on a side of the  
11 mouthpiece into a single sealed chamber formed in an annular space  
12 between the holder and the mouthpiece between two resilient rings each  
13 forming a seal between the mouthpiece and the holder;
- 14 d) allowing tarry materials to condense within said sealed chamber; and  
15 e) drawing the remaining combustion products over a baffle into an outlet  
16 passage leading to an exit of the mouthpiece whereto suction is applied.
- 1 15. The process of claim 14 further comprising allowing tarry material to accumulate  
2 in the sealed chamber.
- 1 16. The process of claim 15 further comprising the acts of a person grasping the  
2 portion of the holder extending outside of the mouthpiece in one hand and the  
3 mouthpiece in another hand and pulling the holder out of the mouthpiece, and  
4 cleaning an outer surface of the holder and an inner surface of the mouthpiece.
- 1 17. The process of claim 16 further comprising the act of replacing the holder in the  
2 mouthpiece.

1    18.    The process of claim 17 wherein the elongated tobacco product is chosen from the  
2           group consisting of cigarettes of the type without an integral filter, cigarettes with  
3           of the type with an integral filter, and cigars.